BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Additional Development Works to Parks and Providing Children Playing and Open Gym Equipments at Lal Bhadur Shastry Layoutin Kempegowda Ward No 01.

Est Cost: 150.00 Lakhs

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	Lal Bhadur Shastry Park 1	Cum							
	Last Portion		1	21.00	20.00	0.45	189.00		
	Front Portion		1	64.00	10.00	0.45	288.00		
	Park 2		1	26.00	16.00	0.40	166.40		
							643.40	344.50	221651.30
	Basic rate	325.00							
	Area Weightage 6%	19.50							
	Total	344.50							
2	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (Page No 6, I.No.2.3)								
	Lal Bhadur Shastry Park	Cum							
	Pathway All round								
	Park 2		1	65	2	0.2	26		
	For Street Light Pole Foundation		22	0.6	0.6	0.6	4.752		
	Cable		1	389.00	0.3	0.45	52.515		
	GAZEBO								
	Size 6.5x6.5	2	8	6.5	0.8	1.2	99.84		
	Platform For Benches	1	33	2.5	1.5	0.3	37.125		
	For Rain-water Harvestig Pits								
	Pits		4	1.766		4.00	28.26		
	For PIT Connecting Drain		4	2.65	0.450	0.45	2.15		
	Gym equipment area		2	12.00	10.00	0.40	96.00		
	Children Play area		1	14.00	18.00	0.30	75.60		
							422.24	394.42	166539.31
	Basic rate	299.00							
	Area Weightage 6%	17.94							

SHRIYA CONSTRUCTION AND CONSULTANCY

	Loading and unloading with 5km lead= (2*1.28*8)+57	77.48							
	Total	394.42							
3	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
		Cum							
	Cable		1	389.00	0.3	0.45	52.515		
							52.52	128.26	6735.57
	A.Basic rate	121.00							
	B.Area Weightage 6%	7.26							
	Total	128.26							
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)								
	For Bed	Cum							
	GAZEBO								
	Size 6.5x6.5	2	8	6.50	0.80	0.15	12.48		
	Platform For Benches		33	2.50	1.50	0.15	18.56		
	Park 2 Kerb PCC		2	65.00	0.20	0.10	2.60		
	Rain Water Harvesting								
	Connecting Drain		4	2.65	0.45	0.15	0.72		
	Children Play area kerb stone		1	64.00	0.20	0.10	1.28		
	Gym equipment kerb stone		2	44.00	0.20	0.10	1.76		
	Gym equipment area		2	12.00	10.00	0.15	36.00		
							73.40	5421.90	397956.62
	A.Basic rate	5115.00							
	B.Area Weightage 6%	306.90							
	Total	5421.90							
5	KSRB 5.4-3 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13 (Page No. 23, Item No. - 5.12 of PW;P&IWTD S.R 2016-17)								
	GAZEBO	Cum							
	Size 6.5x6.5								
	1st Step Up to foundation	2	8	6.50	0.60	0.600	37.44		
	2nd Step Up to Plinth	2	8	6.50	0.45	0.450	21.06		

SHRIYA CONSTRUCTION AND CONSULTANCY

							58.50	5563.94	325490.49
	A.Basic rate	5249.00							
	B.Area Weightage 6%	314.94							
	Total	5563.94							
6	KSRRB M2200-5.9. Providing and laying Design mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - i) Upto 5 m height.(P.No.227, I.No.28.7.9 of PW, P&IWTD SR 2018-19)								
	M20Concrete for Gazebo Posts	Cum							
	GAZEBO								
	Plinth Beam	2	8	6.50	0.30	0.30	9.36		
	For Street Light Pole Foundation		22	0.6	0.6	0.6	4.752		
							14.11	5483.38	77381.46
	A.Basic rate	5173.00							
	B.Area Weightage 6%	310.38							
	Total	5483.38							
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PW, P&IWTD SR2016-17)								
	Coping Concrete	Sqm							
	Platform For Benches		33	2.50	1.50	0.100	12.38		
	Mass concrete for fixing equipments		40	0.60	0.75	0.60	10.80		
							23.18	5876.28	136182.79
	A.Basic rate	5441.00							
	B.Area Weightage 6%	435.28							
	Total	5876.28							
8	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm. (P.No 112, I.No.14.61.2 of PW,P&IWTD S.R 2018-19)								
	Flooring slab	Sqm	33	2.50	1.50	--	123.75		
	Granite stone around Bench		33	8.00	0.30	--	79.20		

SHRIYA CONSTRUCTION AND CONSULTANCY

							202.95	2097.74	425736.33
	A.Basic rate	1979.00							
	B.Area Weightage 6%	118.74							
	Total	2097.74							
9	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No155 of I.No.20.20 in PW,P&IWTD SR 2018-19)								
	Lal Bhadur Shastry Park	cum							
	Park 2		1	65.00	2.00	0.20	26.00		
	GAZEBO								
	Earth Filling	2	1	6.50	6.50	0.30	25.35		
	Platform For Benches		33	2.50	1.50	0.20	24.75		
							76.10	221.54	16859.19
	A.Basic rate	209.00							
	B.Area Weightage 6%	12.54							
	Total	221.54							
10	KSRRB M400-17: Providing, laying, spreading and compacting graded stones aggregate to Wet Mix Macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mix method of tipper to site,Laying in uniform layers with paver in subbase/base course on the well prepared surface and compacting with vibratory rollers to achive the desired density complete as per MORTH specification No. 406.etc with all lead and lifts and as per directions of the Engineer-in-charge(Page No:155 Item No: 20.18, of KPWD SR Bangalore Circle 2018-19)								
	Lal Bhadur Shastry Park	cum							
	GAZEBO								
		2	1	6.50	6.50	0.20	16.90		
	Platform For Benches		1	32.00	2.00	0.10	6.40		
	Park 2 Walkway		1	65.00	2.00	0.15	19.50		
							42.80	2001.28	85654.78
	A.Basic rate	1888.00							
	B.Area Weightage 6%	113.28							
	Total	2001.28							
11	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No. 109, I.No. 14.62 of PWD SR 2018-19)								
	Lal Bhadur Shastry Park	Sqm							
	GAZEBO								
	Designer Tiles	2	1	6.50	6.50		84.50		

SHRIYA CONSTRUCTION AND CONSULTANCY

	Gym equipment area		2	12.00	10.00		240.00		
							324.50	1305.92	423771.04
	A.Basic rate	1232.00							
	B.Area Weightage 6%	73.92							
	Total	1305.92							
12	KSRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)								
	Lal Bhadur Shastry Park	Sqm							
	Park 2		1	65.00	2.00	--	130.00		
							130.00	1116.18	145103.40
	Basic rate	1053.00							
	Area Weightage 6%	63.18							
	Total	1116.18							
13	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No.5.30 in PW,P&IWTD SR 2018-19)								
	Lal Bhadur Shastry Park	No.							
	Park 2		2.00	65.00	--	/0.45	289.00		
	Gym equipment area		2	44.00		/0.45	196.00		
	Children Play area kerb stone		1	64.00		/0.45	142.00		
							627.00	432.48	271164.96

SHRIYA CONSTRUCTION AND CONSULTANCY

	Basic rate	408.00								
	Area Weightage 6%	24.48								
	Total	432.48								
14	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)									
	Lal Bhadur Shastry Park	Sqm								
	Park 2		2	65.00	--	0.35	45.50			
	Gym equipment area		2	44.00		0.35	30.80			
	Children Play area kerb stone		1	64.00		0.35	22.40			
							98.70	84.80		8369.76
	Basic rate	80.00								
	Area Weightage 6%	4.80								
	Total	84.80								
15	Fabricating, supplying & erecting M.S. angular Truss for all spans as approved design and drawing. The entire truss is anchored suitably by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification. (Page No. 43 Item No. 7.30 of CSR 2018-19).									
	GAZEBO	kgs								
	6 No 150mm dia Hollow Circular Pipes		16	3.00	--	--	48.00			
	at 18.9 kg/m			18.90			907.20			
	Main members									
	65mmX100mmX6mm		30	4.00	--	--	120.00			
	at 15 kg/m			15.00			1800.00			
	65mmX100mmX6mm		2	15.50	--	--	31.00			
	at 15 kg/m			15.00			465.00			
	Purlins									
	30mmX50mmX3mm		30	8.50	--	--	255.00			
	at 3.6 kg/m			3.60			918.00			
							4090.20	135.68		554958.34
	Basic rate	128.00								
	Area Weightage 6%	7.68								
	Total	135.68								
16	KSRB 8.4-1 : Providing and fixing Mangalore tile roofing using first class tiles with necessary special tiles for ridges and hips, teak wood reepers of size 50x25mm and pointed with cement mortar 1:4 over the existing rafters including cost of materials, labour curing complete as per specifications Specification No KRS 8.17 (P No 49 I No									
	Mangalore Tiles	Sqm								
	GAZEBO		2	7.00	--	7.00	98.00			
							98.00	1132.08		110943.84
	Basic rate	1068.00								
	Area Weightage 6%	64.08								

SHRIYA CONSTRUCTION AND CONSULTANCY

	Total	1132.08							
17	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complate as per specifications.(P 120/ I.15.74 PW,P & IWTD SR - 2018-19)								
	GAZEBO								
	Circular Posts	2	12	0.52		2.50	31.29		
	Purlins and Main Members								
	65mmX100mmX6mm	2	24	0.33		4.00	63.36		
	65mmX100mmX6mm	2	2	0.33		15.50	20.46		
	30mmX50mmX3mm	2	24	0.16		8.50	65.28		
							180.39	100.70	18164.91
	Basic rate	95.00							
	Area Weightage 6%	5.70							
	Total	100.70							
18	Rainwater Harvesting								
	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 300mm. dia(P.No.254, I.No.34.6.1 of PW,P&IWTD S.R 2018-19)								

SHRIYA CONSTRUCTION AND CONSULTANCY

	For PIT Connecting Drain	Cum	4	2.65	--	--	10.60		
							10.60	1626.04	17236.02
	Basic Rate	1534.00							
	Area weightage 6%	92.04							
	Total Rate	1626.04							
19	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 1200mm dia								
	(P.No.255, I.No.34.7.8 of PW,P&IWTD S.R 2018-19)								
	1200mm Dia	Mtr	4	--	--	4.00	16.00		
							16.00	5976.28	95620.48
	Basic Rate	5638.00							
	Area weightage 6%	338.28							
	Total Rate	5976.28							
20	Filter media stone aggregate 60mm &down size								
	(P.No.II, Sl.No.34 Code No.0746 of PW,P&IWTD S.R 2018-19)								
	For RWH	Cum	4	1.130		1.20	5.43		
							5.43	1341.06	7276.47
	Basic Rate	1054.29							
	Over Head Charges 10%	105.43							
	Contractor Profit 10%	105.43							
	Sub Total	1265.15							
	Area weightage 6%	75.91							
	Total Rate	1341.06							
21	Crushed stone aggregate 13.2mm to 10mm								
	(P.No.II, Sl.No.39 Code No.0921 of PW,P&IWTD S.R 2018-19)								
	For RWH	Cum	4	1.130		1.20	5.43		
							5.43	1388.30	7532.80
	Basic Rate	1091.43							
	Over Head Charges 10%	109.14							
	Contractor Profit 10%	109.14							
	Sub Total	1309.72							
	Area weightage 6%	78.58							
	Total Rate	1388.30							

SHRIYA CONSTRUCTION AND CONSULTANCY

22	Sand/ Artificial Sand/ Manufactured Sand								
	(P.No.II, Sl.No.49 Code No.0334 of PW,P&IWTD S.R 2018-19)								
		Cum	4	1.130		0.50	2.26		
							2.26	2024.30	4576.54
	Basic Rate	1591.43							
	Over Head Charges 10%	159.14							
	Contractor Profit 10%	159.14							
	Sub Total	1909.72							
	Area weightage 6%	114.58							
	Total Rate	2024.30							
23	Supplying and Fixing of Garbage bins rectangular with permanent structure series without arch 100litre capacity approved by Engineer in charge								
	Garbage Bins	No's							
			5				5.00		
							5.00	18450.00	92250.00
	Approved Data Rate	18450.00							
24	Executive bench made out of sadaralli grey stone with hand suport 3 line finishing with arch desiagn with 100cm slabs height 90% length 45cms (data approved rate)								
	Stone Benches	No's							
			33				33.00		
	Approved Data Rate	18200.00					33.00	18200.00	600600.00
	LIGHT POLES								

SHRIYA CONSTRUCTION AND CONSULTANCY

25	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 90 Watts (Page No.67. I No.12.8.4 of Electrical S.R 2019-20)								
	For Street Light	No							
	Parks		22				22.00		
							22.00	7,589.60	166971.20
	Basic Rate	7160.00							
	Area weightage 6%	429.60							
	Total Rate	7589.60							
26	Wiring for lighting/ power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 16 sqmm								
		Mtr							
	(Page No.7. I No.2.3.7 of Electrical S.R 2019-20)								
	For Street Light								
	4th main			389.00			389.00		
							389.00	199.28	77519.92
	Basic Rate	188.00							
	Area weightage 6%	11.28							
	Total Rate	199.28							
	PLAY AND GYM EQUIPMENT								
27	KSRRB 2.6 Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site (P-7 I N-2.13 SR 2018-19)								
	Children Play area	1	14.00	18.00	0.30	75.60			
						75.60	Cum	2183.60	165080.16
	Basic Rate Rs.=	2060.00							
	Add 6% A.W Rs. =	123.60							
	Total Rate Rs. =	2183.60							
							Total "A"		4627327.68

SHRIYA CONSTRUCTION AND CONSULTANCY

28	**Supply & fixing of Arm & Pedal Bike :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	212500.0	425000.00
	Data Rate	212500.00							
29	**Supply & fixing of Elliptical Cross Trainer:** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	175000.0	350000.00
	Data Rate	175000.00							

SHRIYA CONSTRUCTION AND CONSULTANCY

30	**Supply & fixing of Pull Down Challenger :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges(Data approved rate)								
		2				2.00			
						2.00	Each	296000.0	592000.00
	Data Rate	296000.00							
31	**Supply & fixing of Seated Chest Press :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1955 MM x 730 MM x 1955 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges(Data approved rate)								
		2				2.00			
						2.00	Each	287500.0	575000.00
	Data Rate	287500.00							

SHRIYA CONSTRUCTION AND CONSULTANCY

32	**Supply & fixing of Self Weighted Rower :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1390 MM x 805 MM x 1198 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	206250.0	412500.00
	Data Rate	206250.00							
33	**Supply & fixing of HD Double Health Walker :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2015 MM x 615 MM x 1360 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	296000.0	592000.00
	Data Rate	296000.00							

SHRIYA CONSTRUCTION AND CONSULTANCY

34	**Supply & fixing of HD Waist Twister :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1460 MM x 1310 MM x 1150 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	162500.0	325000.00
	Data Rate	162500.00							
35	**Fixing and installation of a three person body twister station:** Size -131 X 100 X 133CM, that consists of three swivel stands that rotates but with a built in safety limitor that meets international safety standards as the arms and shoulders of the user are held square in the overhead hold that is fixed to a monolithic large arc tube center pillar without convex sides & minimal deformation ergonomically curved. The Center pillar has an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support at standard height of 1.4m. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/ Alexta outdoor use color powder electrostatic coating. Safe Zone : 430 X 400 CM. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	234574.0	469148.00
	Data Rate	234574.00							

SHRIYA CONSTRUCTION AND CONSULTANCY

36	**Supply & fixing of Tai Chi Spinners :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		1				1.00			
						1.00	Each	143750.0	143750.00
		Data Rate	143750.00						
37	**Supply & fixing of HD Sit Up Station :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scallopedrimer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	156250.0	312500.00
		Data Rate	156250.00						

SHRIYA CONSTRUCTION AND CONSULTANCY

38	**Fixing and Installation of a Foot Cycle :** Size - 97 X 45 X 133 CM, that has a central pin which connects the 2 heavy flywheels & which has 2 main bearings and in addition has a TEFLON RESISTANCE BEARING which locks the pin and creates resistance to the spin. The central pillar is a monolithic large arc tube without convex sides & minimal deformation which is ergonomically curved with an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support at standard height of 1.4m. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. The seat must consist of PU Polysafe cushions seats. Safe Zone : 247 X 195 CM. Inclusive of All Taxes and Transportation Charges								
		2				2.00			
						2.00	Each	245891.0	491782.00
	Data Rate	245891.00							
39	**Supply and fixing of childern Multi Play Equipment with curved silde, tunnel and side panels :** Upright structural posts of height 2.2m, 2.4m are to be HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing.The poles are welded on to a base plate made from steel with 114mm inner diameter. Deck of size 1.45 x 1.45m,Impending stairs of size 0.80m x 0.60m and 1.05 m x 0.68 m are fabricated from 2mm perforated solid punched steel along with a curved Slide of size 1.7m x 1.8m x 1.2m Coupled with the tunnel are made of super thick plasticwhich shelle be animated and rotationally molded from antistatic, copolymer, virgin((LLDPE) which is UV stabilized with color molded in and minimum thickness of 6 -8mm. Unit consist of Deck of size 1.45 x 1.45m and Staircase of size 1.74 m x 1.32 m along with Triple Slide of size 3.95m x 2.93m x 1.80m with stairs, Plastic Components[super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 -8mm.Roof of size 2.00m x 1.78m, Spiral tube Slide of size 3.2 m x 1.82mx 2.7m along with Monkey loop climber 1.87m x 1.15m x 0.6m which has thickness of 48 mm curved bar supports are all robotic welded fabricated from 32 O.D. GI pipes for the outer pipes and 25mm O.D. Also consisting of Deck of size 1.45 x 1.45m Plastic Components shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 -8mm.The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges								
		1				1.00			
						1.00	Each	######	3879484.00
	Data Rate	#######							
40	**Supply and fixing of childern Play Equipment Fiero A Swing :** Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color								
		1				1.00			
						1.00	Each	126892.0	126892.00
	Data Rate	126892.00							

41	**Supply and fixing of childern Play Equipment Two seater seesaw :** The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	83478.0	166956.00
	Data Rate	83478.00							
							Total Amount B		8862012.00
							Total Amount A		4627327.68
							Total Amount B		8862012.00

	Total Amount A+B	1,34,89,339.68
	GST 12% ON Total A	5,55,279.32
	DPR 1 %	1,40,446.19
	PMC 1 %	1,40,446.19
	ADD Tender Premium 5%	6,74,466.98
	Miscellaneous and unforeseen charges	21.63
	Grand Total	1,50,00,000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Technical Sanction
Accorded For RSIID already
Head of A/C P-3783
CER No :....144..... Dt:12.11.2020

TA I — CE (NK).

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

SHRIYA CONSTRUCTION AND CONSULTANCY

Administrative Sanction for Rs. 150.00 lakhs
Rupees One crore fifty lakhs
only
is accorded under head P-3783
Development of Parks in ward
No. 01, 03 & 04
Registered as CE No. 102 . Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNK/AS/102/20-21 Dt. 29/3/2021

Ex...